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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,277	04/05/2006	Radka Milanova	7865-206 MIS:jb	2819
Michael I Stewa	7590 04/02/200 art	EXAMINER		
Sim & McBurn 6th Floor	ey	TSAY, MARSHA M		
330 University	Avenue	ART UNIT	PAPER NUMBER	
Toronto, M5G		1656		
CANADA				
			MAIL DATE	DELIVERY MODE
			04/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summany		Applica	tion No.	Applicant(s)				
		10/517,	277	MILANOVA ET A	MILANOVA ET AL.			
Office Action Summary			er	Art Unit				
		Marsha	<u> </u>	1656				
Period fo	The MAILING DATE of this communic or Reply	ation appears on t	he cover sheet wit	th the correspondence ac	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply is specified above, the maximum statuse to to reply within the set or extended period for reply we reply received by the Office later than three months after an extended patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF a 37 CFR 1.136(a). In no nication. It ory period will apply and ill, by statute, cause the a	FHIS COMMUNIC event, however, may a re will expire SIX (6) MON' pplication to become AB.	CATION. eply be timely filed THS from the mailing date of this of ANDONED (35 U.S.C. § 133).	·			
Status								
1) 又	Responsive to communication(s) filed	on 24 December	2008					
2a)□	•	o)⊠ This action is						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	4)⊠ Claim(s) <u>3-46,48,49 and 51-53</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) <u>3,4,11-16,20-24,32-34,36-43 and 51-53</u> is/are allowed.							
·	6)⊠ Claim(s) <u>5-10,17-19,25,29-31,35,44-46 and 48</u> is/are rejected.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>26-28 and 49</u> is/are objected		,					
•	Claim(s) are subject to restricti		requirement.					
Applicati	on Papers							
9)□	The specification is objected to by the	Examiner.						
•	The drawing(s) filed on is/are:		b)∏ objected to I	ov the Examiner.				
,	Applicant may not request that any object							
			·		FR 1.121(d).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	O-948)	Paper No(s	ummary (PTO-413) i)/Mail Date iformal Patent Application 				

This Office action is in response to Applicants' remarks received December 24, 2008.

Applicants' arguments have been fully considered and are deemed to be persuasive to overcome some of the rejections previously applied. Rejections and/or objections not reiterated from previous Office actions are hereby withdrawn.

Claims 1-2, 47, 50 are canceled. Claims 3-46, 48-49, 51-53 are currently under examination.

Priority: The request for priority to provisional application 60/401782, filed August 8, 2002, and provisional application 60/390126, filed June 21, 2002, is acknowledged.

The indicated allowability of claim 25 is withdrawn in view of further consideration of Murray (US 6005076; IDS; previously cited) in view of Rossi et al. (Lebensmittel-Wissenschaft Und-Technologie 1982 Istituto Di Technologie Almentari, Univ. Degli Studi Di Milano, Via Celoria 2, 20133, Milan Italy 15(5): 309-312; IDS 07.25.06; previously cited). The rejection is noted below.

Objections and Rejections

Claims 5-10, 17-19, 25, 29-31, 35, 44-46, 48 are rejected under 35 U.S.C. 103(a) as being obvious over Murray (US 6005076; IDS; previously cited) in view of Rossi et al. (Lebensmittel-Wissenschaft Und-Technologie 1982 Istituto Di Technologie Almentari, Univ. Degli Studi Di Milano, Via Celoria 2, 20133, Milan Italy 15(5): 309-312; IDS 07.25.06; previously cited).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(1)(1) and § 706.02(1)(2).

In Example 3 (col. 7, lines 60-67), Murray discloses a process of initially preparing a protein isolate using a meal prepared from the cold pressing of canola seeds to give a consistency similar to canola meal, followed by a protein extraction and recovery process (as described in Example 2). According to Murray, the "canola meal" may be any canola meal resulting from the removal of canola oil from canola seed (col. 2-3, lines 66-2). In Example 2, Murray discloses that meal from rapeseed containing 32.5% protein, 10.1% fat and 6.1% moisture was extracted with an aqueous salt solution and agitation (col. 7 lines 37-40). It would be reasonable for one of ordinary skill to recognize that the initial rapeseed meal having a moisture content of 6.1% would be essentially a dried meal product that is desolventized. The aqueous meal/salt solution

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was mixed for 2 hours at 25°C to remove residual meal and then chilled to 8°C followed by centrifugation (col. 7 lines 5, 40-43). Murray discloses the aqueous salt solution with an ionic strength value of less than 0.8 and within the range of 0.3 to 0.6 (col. 8, lines 62-63), a pH range of 5.3 to 6.2 (col. 8, line 66-67), and wherein the aqueous protein solution has a concentration of about 10-100 g/L of protein (col. 9, lines 1-3). In addition, Murray discloses that the formation of protein isolates into micelles is achieved optimally at pH values of 5.3 to 6.2 (col. 3, lines 46-50). After separating the aqueous protein solution from the residual oil seed meal, Murray discloses a process step for increasing the protein concentration using a selective membrane technique, diluting the concentrated protein solution by 15 fold at 6° C to form protein micelles, settling the protein micelles, and recovering the protein mass to provide a dried proteinaceous powder having a protein content of at least 90 wt % (col. 7, lines 12-30, col. 8, lines 31-61). The concentration step can result in a protein concentration of about 40 to about 200 g/L (col. 5 lines 47-50). Murray does not explicitly teach a desolventized oil seed meal under vacuum (i.e., the steps of 17, 25(b) and 17, 25(c)).

Rossi et al. disclose that to obtain a protein meal, an initial oil-extraction process is used to obtain a "cake" that is rich in protein. Rossi et al. further disclose a desolventizing under vacuum technology can be performed at 40°C of said cake to obtain a protein meal (p. 309, 310 Figure 1, p. 311 column 2).

The instant claims are essentially drawn to a process of preparing a protein isolate comprising processing a desolventized oil seed meal. The desolventized oil seed meal is obtained by the process described in claims 17, 25(a)-17, 25(c). The actual process to recover protein isolate from the desolventized oil seed meal is described in claims 17, 25(d)-17, 25(i).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Murray of obtaining a protein isolate by first crushing canola seeds (claim 17, 25a), substituting the oil-extraction process (claim 17, 25b) and desolventizing under vacuum process (claim 17, 25c) of Rossi et al. to obtain a desolventized oil seed meal and then processing said desolventized oil seed meal to obtain a protein isolate by extracting said desolventized oil seed meal to cause solubilization and to form an aqueous protein solution having a pH of about 5-6.8, maintain the aqueous solution at an ionic strength and pH range that is suitable for the formation of protein micelles (claim 17), increase the protein concentration by a concentration step using a selective membrane technique such that the protein concentration is about 200 g/L (claim 25), dilute the concentrated protein solution to induce the formation of protein micelles (claim 17, 25, 29-31), settle the protein micelles, and recover the protein micelles to make a dry proteinaceous powder having a protein content of at least 90 wt % (claim 5-10, 17-19, 25, 35) because Murray provides and suggests motivation for a method of preparing a protein isolate from a desolventized oil seed meal and Rossi et al. teach a desolventized oil seed meal under vacuum.

Though, Murray provides working examples using canola meal, the process may be used for other oil seed meals, such as soybean meal and rapeseed meal (col. 2, lines 60-62), as well as proteinaceous material, such as proteins from naturally occurring oil seeds or proteins obtained by genetic manipulation (col. 2, lines 62-65). In col. 3, Murray also discloses that the canola meal may be any canola meal resulting from canola seed with varying levels of non-denatured protein, from hot hexane extraction or cold oil extrusion methods (col. 3, lines 1-5).

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It would have been obvious to a person having ordinary skill in the art to prepare a protein isolate with any appropriate oil seed meal (claim 25, 44-46, 48) because Murray provides and suggests motivation for using a proteinaceous material to prepare a protein isolate having a protein content of at least 90 wt % (col. 8 lines 31-61).

In their response, Applicants have rewritten claims 3, 4, 17, 20, 24, 25, 36, and 42 in independent form, incorporating the subject matter of claim 1 into said claims. Claims 5-10, 35, 44, 49 have been made dependent on claim 25. Applicant's arguments have been fully considered but they are not persuasive.

Firstly, it should be noted that claim 17 was not objected to as being dependent upon a rejected base claim but would be allowable if rewritten in independent form in the previous Office action mailed September 29, 2008. Claim 17 was included in the 103(a) rejection; therefore, rewriting the claim in independent form would not place the claim in condition for allowance.

Secondly, claim 25 was inadvertently not included in the 103(a) rejection of the previous Office action, but it is now instantly rejected under 103(a). Murray disclose a concentration step using a selective membrane technique wherein the concentrated protein solution resulting from the concentration step is about 40 to about 200 g/L (Murray col. 5 lines 47-50).

At least for these reasons, claims 5-10, 17-19, 25, 29-31, 35, 44-46, 48 are still believed to be unpatentable under 35 U.S.C. 103(a) as being obvious over Murray in view of Rossi et al.

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Claims 26-28, 49 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 3-4, 11-16, 20-24, 32-34, 36-43, 51-53 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marsha M. Tsay whose telephone number is (571)272-2938. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Maryam Monshipouri/

Primary Examiner, Art Unit 1656

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March 26, 2009